

Vehicle air bag apparatus.**Publication number:** DE69101169 (T2)**Publication date:** 1994-11-17**Inventor(s):** MASEGI MITSUHIKO [JP]; KONDO AKIRA [JP]; MUTOH MASAHIKO [JP]; FUJITA KOICHI [JP]**Applicant(s):** NIPPON DENSO CO [JP]**Classification:**- international: **B60R21/16; B60R21/01; B60R21/16; B60R21/01;** (IPC1-7): B60R21/00

- European: B60R21/017; B60R21/017D

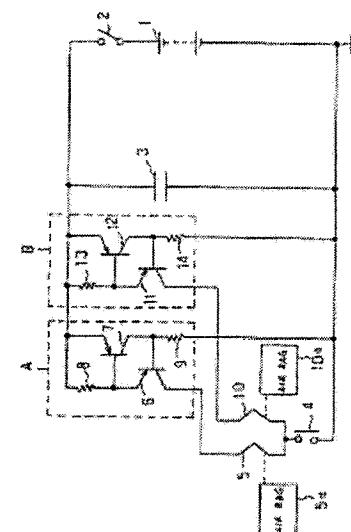
Application number: DE19916001169T 19910417**Priority number(s):** JP19900102472 19900418**Also published as:**

- EP0453255 (A1)
- EP0453255 (B1)
- US5135254 (A)
- JP4002544 (A)
- JP4002544 (A)

Abstract not available for DE 69101169 (T2)

Abstract of corresponding document: **EP 0453255 (A1)**

Air bags are located at different positions within a vehicle. Squibs serve to fire and activate the air bags respectively. An acceleration detecting device is provided in common to the squibs for detecting an acceleration of the vehicle upon a collision of the vehicle and executing a switching operation in response to the detected vehicle acceleration. Constant-current circuits supplied with an electric power from a vehicle battery feed constant electric currents for a firing operation to the squibs respectively in response to the switching operation of the acceleration detecting device. An energy storage device serves to feed a backup electric power to the constant-current circuits when the supply of the electric power from the vehicle battery is cut off. Each of the constant-current circuits includes a first transistor for feeding an electric current to the related squib, a first resistor for detecting a level of the electric current fed to the squib, a second transistor conducting an electric current with a level which depends on the electric current level detected by the first resistor, and a second resistor for generating a voltage which depends on the electric current conducted by the second transistor and for controlling the first transistor in response to the generated voltage.

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